

## ABSTRACT OF THE DISCLOSURE

A method for class-based per-flow queuing across multiple hierarchical link-sharing structures, where each of the structures shares a single link, where each of the structures includes a plurality of leaves, where each of the leaves represents a single flow, and where each of the leaves is common to each of the structures, the method including a) providing a leaf selection mechanism operative to enforce a plurality of rules adapted for the multiple hierarchical link-sharing structures, and b) selecting in response to applying the leaf selection mechanism one of the leaves for servicing during a transmission opportunity.